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Analytical, Numerical and Experimental Methodologies for the Analysis of Multilayered Structures

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Message from the Guest Editors

The proposed Special Issue is aimed at papers concerning analytical, numerical and experimental analyses of multilayer structures with simple or complex geometry (plates, shells, arcs, beams, specific specimens and so on) and produced by means of classical technologies or advanced technologies such as those relating to additive manufacturing. In details, static, dynamic, free vibration, buckling and non-linear analyses of multilayered composite, sandwich, functionally graded, piezoelectric, piezomagnetic, polymeric, nanoreinforced and anisotropic structures can be proposed. Experimental tensile, compressive and bending tests can be developed to validate numerical and analytical models or to opportunely characterize the material properties. Analytical and numerical models can be based on closed-form solutions, finite element models, boundary element models, generalized differential quadrature method, Galerkin and Ritz methods and so on.